



# MLDS CENTER

Maryland Longitudinal  
Data System

Better Data • Informed Choices • Improved Results

Substantive Changes to  
the

## MLDS Data Inventory

June 2019

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## **Overview**

The Maryland Longitudinal Data System (MLDS) is Maryland's central repository for comprehensive data from all levels of education and into the State's workforce. The MLDS Governing Board is required to create an inventory of individual student and workforce data proposed to be maintained in the system (Md. Ed. Art. §24-704(g)(6)). Additionally, the data inventory serves to inform the public about the contents of the MLDS database. This document provides a comprehensive summary of data elements proposed to be maintained, or removed from the System.

## **Process**

The development of the Data Inventory is a collaborative process between DLLR, MSDE and MHEC, and the MLDS Data Governance Advisory Board. The MLDS Data Governance Advisory Board annually reviews the Data Inventory and identifies what data elements to propose for inclusion or remove from the System. All data must be relevant to answering one of the questions in the [Research Agenda](#) or generally identified as necessary for evaluating federal or State supported education programs. Data elements identified for inclusion or removal in the System are presented to the Governing Board for approval. Once approved, the requirements are developed with the agency and included in the data collection calendar.

## **Accessing the Data Inventory**

As of December 2016, the MLDS Data Inventory is available online through the MLDS Center [website](#). This change allows the inventory to be more dynamic, by presenting the inventory in a way that may be organized according to the user's needs.

## **Changes to the Data Inventory**

As a result of publishing the Data Inventory in a dynamic format, this document will only include substantive changes for each of the domains. Substantive changes are inclusions or removals of data elements in the Data Inventory.

Administrative changes are made annually and include the following:

- Clarification to the database in which the data element is maintained (i.e. ODS or MDM)
- Corrections and consistency in the CEDS Global ID for the Data Element
- Consistency in reporting the Element Name

## **Student Data**

State law (Education Article §24-701, Annotated Code of Maryland) defines student data to mean data relating to student performance. The law also lists specific data elements not considered student data. As of the 2019 legislative session, House Bill 704 authorizes the Center to include discipline data and juvenile delinquency records. By removing the restriction on these specific data elements, student data now includes:

- State and national assessments;
- Course-taking and completion;

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- Grade point average;
- Remediation;
- Retention;
- Degree, diploma, or credential attainment;
- Enrollment;
- Demographic data;
- Juvenile delinquency records; and
- Elementary and secondary school disciplinary records.

The law continues to prohibit the Center from collecting data on students from criminal and Child In Need of Assistance records and medical and health records.

### **Workforce Data**

State law (Education Article §24-701, Annotated Code of Maryland) defines workforce data as data relating to:

- Employment status;
- Wage information;
- Geographic location of employment; and
- Employer information.

### **Understanding the Fields in the Data Inventory**

**Approval Status** – identifies the Governing Board approval status for the Domain, Entity, or Element.

- **Approved** – The element had been approved for inclusion in the MLDS by the MLDS Governing Board.
- **Proposed** – The element has been proposed for inclusion and is pending review by the MLDS Governing Board for collection by the MLDS Center.

**Approval Date** – date that the Governing Board approved the inclusion of the Data Element to be maintained in the System.

**Availability** – the earliest date that the Date Element is available to the MLDS.

**CEDS Global ID** – is the Common Education Data Standards unique identifier for the data element. Data elements in the MLDS database are mapped to the [Common Education Data Standards](#) (CEDS Version 6.0) when possible. CEDS represents a national, collaborative effort to develop voluntary, common data standards across the P-20W pipeline and provides nationally recognized naming conventions and definitions. Where data cannot be mapped to CEDS 6.0 standards, alternate domain, entity, and element names are provided, if applicable.

**Database** – an indication of the location of the data element within the MLDS. Data elements are either in the Operational Data Store (ODS) or the Master Data Management (MDM) database. The MDM database contains confidential and sensitive information on student and workers and is restricted to specified authorized staff of the MLDS Center. The ODS contains sensitive, de-identified information on students and workers and is restricted to authorized staff of the MLDS Center.

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**Description** – a description of the Data Element that provides additional information related to how the data element is collected, used, or defined in the System.

**Domain** – Domains indicate the sectors that are part of the MLDS. The Data Inventory contains both internal and external domains. Internal domains relate to the MLDS partner agencies that provide student and workforce data directly to the MLDS through a memorandum of understanding. MLDS partners include: Maryland State Department of Education (MSDE), Maryland Higher Education Commission (MHEC), and Maryland Department of Labor, Licensing and Regulation (DLLR). External domains include publicly available data or data provided through a memorandum of understanding with the external entity. Data from external sources are used to enhance the data received from internal sources, and provide additional context to the data in the System.

Internal domains include:

- Workforce,
- Postsecondary,
- PK12.

External Domains include:

- U.S. Census Bureau (CENSUS), and
- Motor Vehicle Administration (MVA).

**Element Name** – describes the data element provided to the MLDS. These are attributes of the Entity. This may be the name used by the partner agency, or a standard name used by CEDS.

**Entity** – Entities represent persons, places, events, objects or concepts about which the data is collected or shared. The Entities in the MLDS Data Inventory are:

- |                      |                     |                        |
|----------------------|---------------------|------------------------|
| • Address            | • Institutional     | • NA                   |
| • AE Student         | • Characteristics   | • PS Institution       |
| • Assessments        | • K12 Class/Section | • PS Student           |
| • Authentication and | • K12 Course        | • Quarterly Employment |
| Authorization        | • K12 Organizations | • Tuition              |
| • EL Child           | • K12 School        | • W Employer           |
| • EL Organization    | • K12 Staff         | • W Person             |
| • EL Staff           | • K12 Student       |                        |
| • Financial Aid      | • LEA               |                        |

**Load Status** – provides an indication of the status of the data element within the MLDS.

- **Active** data elements are loaded into the System and are currently in use.
- **Inactive** data elements were approved for inclusion in the MLDS by the Governing Board, but are not currently loaded into the MLDS or have not yet been provided to the MLDS from the source agency.
- **Removed** data elements that have been eliminated from the MLDS even though they were approved by the Governing Board for use.
- **Obsolete** data elements were approved for collection but are no longer available from the source. Data remains active in the System for the years the data element was available.

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**Source** – indicates the origin of the data for the specific Domain. This may be the name of the data collection administered by the agency or the table name. The source is specific to the agency providing the data to the MLDS.

## **PK12**

PK12 domain data is provided to the MLDS from the Maryland State Department of Education (MSDE).

### **Proposed Sources - None**

There are no proposed PK12 data elements at this time.

### **Proposed Removals - None**

There are no removals of PK12 data elements at this time.

## **Workforce**

Workforce domain data is provided to the MLDS from the Department of Labor, Licensing and Regulation (DLLR).

### **Proposed Sources**

#### **Apprenticeship Data**

Senate Bill 978, also known the Career Preparation Expansion Act (CPEA), was passed in the 2018 legislative session and requires various entities to provide MHEC with data. Apprenticeship data from the Division of Workforce Development and Adult Learning (DWDAL) in the Department of Labor, Licensing, and Regulation is included in this requirement. The MLDS Center worked on MHEC's behalf to contact DWDAL and discuss the apprenticeship data they maintain. MLDS Center staff worked with DWDAL staff to identify data elements needed for identity resolution purposes and data elements deemed useful for research purposes. The data elements for inclusion in the Data Inventory are detailed in the table below.

<b>CEDS Global ID</b>	<b>Entity</b>	<b>Element Name</b>	<b>Approval Status</b>	<b>Availability</b>	<b>Source</b>	<b>Database</b>
000115	AE Student	First Name	Proposed	2008	Apprenticeship	MDM
000172	AE Student	Last Name	Proposed	2008	Apprenticeship	MDM
000184	AE Student	Middle Name	Proposed	2008	Apprenticeship	MDM
000259	AE Student	Social Security Number (SSN)	Proposed	2008	Apprenticeship	MDM
000033	AE Student	Birthdate	Proposed	2008	Apprenticeship	MDM
000269	AE Student	Address Line 1	Proposed	2008	Apprenticeship	MDM
000040	AE Student	City	Proposed	2008	Apprenticeship	ODS
000214	AE Student	Zip code	Proposed	2008	Apprenticeship	MDM
000255	AE Student	Gender	Proposed	2008	Apprenticeship	ODS
000144	AE Student	Hispanic or Latino Ethnicity	Proposed	2008	Apprenticeship	ODS
000016	AE Student	American Indian or Alaska Native	Proposed	2008	Apprenticeship	ODS
000020	AE Student	Asian	Proposed	2008	Apprenticeship	ODS

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000034	AE Student	Black or African American	Proposed	2008	Apprenticeship	ODS
000192	AE Student	Native Hawaiian or Other Pacific Islander	Proposed	2008	Apprenticeship	ODS
000301	AE Student	White	Proposed	2008	Apprenticeship	ODS
000973	AE Student	Demographic Race Two or More Races	Proposed	2008	Apprenticeship	ODS
001071	AE Student	Apprentice ID	Proposed	2008	Apprenticeship	MDM
000997	AE Student	Apprenticeship Type	Proposed	2008	Apprenticeship	
001756	AE Student	Occupation	Proposed	2008	Apprenticeship	ODS
000191	AE Student	Sponsor Number	Proposed	2008	Apprenticeship	ODS
000269	AE Student	Sponsor Address	Proposed	2008	Apprenticeship	ODS
000040	AE Student	Sponsor City	Proposed	2008	Apprenticeship	ODS
000214	AE Student	Sponsor Zip code	Proposed	2008	Apprenticeship	ODS
001076	AE Student	Employer	Proposed	2008	Apprenticeship	ODS
000269	AE Student	Employer Address	Proposed	2008	Apprenticeship	ODS
000040	AE Student	Employer City	Proposed	2008	Apprenticeship	ODS
000214	AE Student	Employer Zip code	Proposed	2008	Apprenticeship	ODS
000998	AE Student	Apprenticeship Start Date	Proposed	2008	Apprenticeship	ODS
000999	AE Student	Apprenticeship End Date	Proposed	2008	Apprenticeship	ODS
NA	AE Student	Apprenticeship Status	Proposed	2008	Apprenticeship	
000141	AE Student	Education Level	Proposed	2008	Apprenticeship	ODS
001742	AE Student	Industry	Proposed	2008	Apprenticeship	ODS
001078	AE Student	Related Training Instruction Provider	Proposed	2008	Apprenticeship	
000269	AE Student	Related Training Instruction Provider Address	Proposed	2008	Apprenticeship	
000040	AE Student	Related Training Instruction Provider City/County	Proposed	2008	Apprenticeship	
000214	AE Student	Related Training Instruction Provider Zip code	Proposed	2008	Apprenticeship	
NA	AE Student	Program Length	Proposed	2008	Apprenticeship	
000362	AE Student	Required Instructional Hours	Proposed	2008	Apprenticeship	
NA	AE Student	Starting Wage	Proposed	2008	Apprenticeship	
NA	AE Student	Ending Wage	Proposed	2008	Apprenticeship	

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NA	AE Student	Hourly Wage	Proposed	2008	Apprenticeship	
NA	AE Student	Minimum Age	Proposed	2008	Apprenticeship	
NA	AE Student	Minimum Education Level	Proposed	2008	Apprenticeship	
000620	AE Student	Exit Reason	Proposed	2008	Apprenticeship	

### **Proposed Removals - None**

There are no removals of workforce data elements at this time.

### **Postsecondary**

Postsecondary domain data is provided to the MLDS from the Maryland Higher Education Commission (MHEC).

### **Proposed Sources - None**

There are no proposed postsecondary data elements at this time.

### **Proposed Removals - None**

There are no removals of postsecondary data elements at this time.

### **External Domains**

External domain data is acquired by the MLDS from:

- U.S. Census Bureau (Census); and
- Maryland Department of Transportation, Motor Vehicle Administration (MVA).

### **Proposed Sources - None**

There are no proposed external data sources at this time.

**Supporting Information** For more information on the MLDS Center please visit the MLDS Center website at [mldscenter.maryland.gov](http://mldscenter.maryland.gov).

For additional information on CEDS 6.0 Data Standards visit [ceds.ed.gov](http://ceds.ed.gov).

[CEDS 101](#) describes what the CEDS standard is, why it is needed, and the parts of the CEDS standard.

### **Contributors and Change History**

Date	Description/Reason for change	Authors/Contributors	Version
07/25/2012	Initial Draft	John Bruns	1.0
09/1/2012	Revision of content, addition of tables	John Bruns, Rob London	1.0
10/2/2013	Revision of content, addition of person,	John Bruns	2.0

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Date	Description/Reason for change	Authors/Contributors	Version
	organization data elements; mapping to CEDS workforce elements added		
10/29/2013	Added CEDS 4.0 details and data elements planned for the MLDS Master Data Management system	John Bruns	2.0
10/31/2013	Review and update	Chandra Haislet	2.0
11/1/2013	Updates to sections 2.0-5.0	Ross Goldstein	2.1
11/1/2013	Inactive CEDS 4.0 elements removed from Appendix B	John Bruns	2.2
11/15/2013	Active and Approved elements added to Appendix B and C; reserved elements removed	John Bruns	2.3
11/20/2013	Removed Appendices related to elements by policy question and system source; added active and Approved elements; denoted elements not mapped to CEDS 4.0	John Bruns	2.4
11/25/2013	Defined Approved elements as those approved by agencies for submission; removed Approved elements not approved	John Bruns	2.5
12/13/2013	All "Approved" data elements in Version 2.5 marked as active following MLDS Board approval	John Bruns	2.6
1/4/2014	Initial Draft of CEDS Elements	John Bruns (MSDE)	3.1
1/31/2014	Research Request of CEDS Elements	Mike Woolley (UMB)	3.1
2/28/2014	Availability of Data Alignment – K12	Janice Johnson (MSDE)	3.2
2/28/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.2
2/28/2014	Availability of Data Alignment – Postsecondary	Andrew Nichols (MHEC)	3.2
3/13/2014	Approved Items for Inventory	Chandra Haislet (MLDS Center)	3.3
5/28/2014	Availability of Data Alignment – Postsecondary	Jon Enriquez (MHEC)	3.4
6/2/2014	Approved Items for Inventory (Data Gab)	Chandra Haislet (MLDS Center)	3.5
6/6/2014	Availability of Data Alignment – Early Learning	Phil Koshkin (ECE)	3.6
6/6/2014	Additional Postsecondary Data	Jon Enriquez (MHEC)	3.7
6/9/2014	Availability of Data Alignment – Workforce	Donni Turner (DLLR)	3.8
12/8/2014	Availability of Data Alignment – Governing Board Meeting 12/16/2014	Laia Tideman (MLDS Center)	4.0
12/18/2014	Proposed Data Elements Approved by the Governing Board 12/16/2014	Laia Tideman (MLDS Center)	4.1
11/10/15	Inclusion of Data Elements approved in previous versions (MHEC and DLLR) Inclusion of MVA Data Elements for approval by the MLDS Governing Board	Laia Tideman (MLDS Center)	4.2
12/8/2015	Revisions by MHEC to Postsecondary Data	Parris Jackson	4.3

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Date	Description/Reason for change	Authors/Contributors	Version
	Elements		
12/9/2015	Final Revisions prior to presentation at the MLDS Governing Board	Laia Tiderman	4.5
12/15/2015	Final with approval from Governing Board	Laia Tiderman	4.5
10/13/2015	Revisions for Data GAB 10/19/2016	Laia Tiderman	4.7
11/1/2016	Published Data Inventory on MLDS Website Revised document to include substantive changes Included definitions for all fields included in online Data Inventory	Laia Tiderman	5.0
11/21/2016	Changes to proposed workforce sources and elements	Laia Tiderman	5.1
12/2/2016	Updates to <i>Overview</i> , inclusion of <i>Process, Student Data</i> and <i>Workforce Data</i> definitions, updates to <i>Understanding the Fields</i> in the Data Inventory	Laia Tiderman	5.2
5/16/2017	Proposed and Removed data elements for 2017 June Governing Board Meeting	Laia Tiderman	6.0
5/24/2018	Proposed removal of IPEDS Data and Inclusion of Publicly Available Aggregate Data; Annual updates for 2018 June Governing Board Meeting	Laia Tiderman	7.0
6/14/2018	Changes requested during 2018 June Governing Board Meeting	Laia Tiderman	7.5
11/29/2018	Additions to PK12 data in alignment with changes to data collections made by MSDE	Laia Tiderman	8.0
05/21/2019	Additions to Workforce data due to the new Apprenticeship Program data collection from DLLR	Molly Abend	9.0